Mercedes-Benz Museum, Stuttgart

GEZE TSA 325 NT

Revolving doors for manual and automatic operation

Individual solutions for entrance areas

Its the entrance area that reveals the character of a building. GEZE Sonderkonstruktionen make this first impression become something special. High comfort in use and sophisticated design combined with state-of-the-art technology in highest quality for each individual case.

- Revolving doors for elegance in the entrance area
- Semi-circular and curved sliding doors with an overall height of the drive of only 7 cm
- Prismatic sliding doors offer freedom of design; from 90-270^0, each angle is possible

Further product features :

- **Individuality**
  GEZE Sonderkonstruktionen – that means individual solutions for entrance areas

- **Quality**
  The processing of high-grade materials, the employment of state-of-the-art technology and the continuous further development of the products in our technology centre undertake the high and reliable quality of the GEZE products

- **Comfort**
  GEZE Sonderkonstruktionen offer comfortable and secure entrance to a building

- **Climate**
  The employment of revolving doors and air traps create a constant and comfortable climate. Draught and noise are avoided and a cost-effective temperature regulation is achieved.

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Belgian SkyShops, Brussels International Airport

Automatic semi-circular sliding door GEZE Slimdrive SC with a height of drive of only 7 cm

PSD Bank Westfalen Lippe, Münster

Automatic GEZE revolving door with drum walls made of sheet panels anodised in a special colour, 4 leaves, with underfloor operator and external manual night-time locking mechanism

DOOR TECHNOLOGY

GLASS SYSTEMS

AUTOMATIC DOOR SYSTEMS

RWA AND WINDOW TECHNOLOGY

SAFETY TECHNOLOGY

REVOLVING DOORS GEZE TSA 325 NT

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Deutsche Bank, Stuttgart · Fully-automatic GEZE revolving doors with 3 leaves and drum walls of sheet metal panels

Introduction

Focal point of the entrance area

The entrance area is the poster child of your building and thus of your enterprise. Therefore it is imperative to validate the positive optical impression through the faultless function of the door system even in the case of high access frequency. GEZE revolving doors meet these requirements and enthral planers, owners and users of buildings. The practically unlimited freedom of design and the full range of materials and colours fulfil even highest architectural demands. Open and closed at the same time, revolving doors eliminate draught. Owing to an entrance area without draught the area in direct vicinity to the entrance can be used commercially and at the same time noise, dust and dirt are kept outside. The clear physical separation into interior and exterior area and the energy that is saved thereby offer clear cost advantages and makes the use of revolving doors even more advantageous.

The range of application of revolving doors is manifold. They are suited for :

- Business buildings
- Public buildings
- Shopping centres
- Hotels and restaurants
- Administrative buildings
- Car dealerships
- Airports and railway stations

Due to the available optional features with folding leaves, revolving doors are also suitable for the use in escape and rescue routes depending on the required width of the escape route.

GEZE revolving doors are tailor-made for each individual object. They feature a variety of options and versions. Should your desired object vary from the stated dimensions and options please do not hesitate to contact us. We offer a door for each entrance!

Advantages for all target groups

Advantages for planers and builders:

- Freedom of design and object-specific individual planning with a variety of optional features
- Commercial use of the entrance area for shops, offices, exhibition areas and reception desk
- Harmonious optical appearance of the facade and the interior
- Representative entrance with an excellent visual effect
- Improvement of the energy balance of the building
- Economic solution due to a high degree of prefabrication ex works

Advantages for the user:

- Faultless and unobstructed operation of the door system even in the case of high access frequency
- Simple adjustment of the desired mode of operation
- Effective protection against noise, dust and dirt
- Draught-proof design of the entrance area

Advantages for the installer:

- Modular and flexible system
- Simple installation due to a high degree of prefabrication ex works
- Pre-defined and programmed control technology for a quick start-up
- Door system and safety devices comply with the actually valid standards and regulations

Mercedes Benz Museum, Stuttgart · Fully-automatic GEZE all-glass revolving door with 3 leaves and underfloor operator as well as night-time locking mechanism

Types of drives

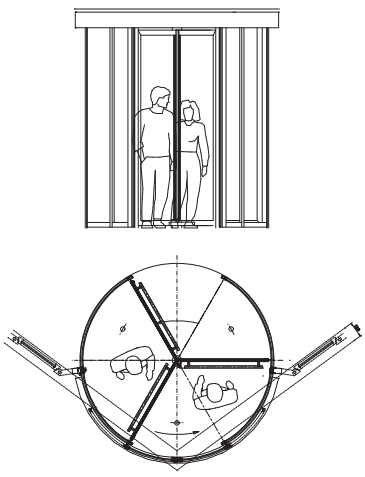
The selection of the revolving door with regards to the mode of operation and the diameter depends on the object and its specific use. Please determine the planned type of use and the expected influx of visitors during the planning phase in order to come to a decision on the optimum revolving door system. Furthermore please check whether the entrance will also be used as escape and rescue route and which further special demands are put on the door system, e.g. whether an access control system via a card reader will be required.

Manual revolving door

We recommend manual revolving doors with a diameter of approx. 3000 mm for buildings with a limited flow of visitors. Larger manual doors are possible (up to max. 3600 mm), however, the comfort of use is considerably reduced due to the increased exertion of force and the increased friction of the brushes. The doors can be operated by slightly pushing them. The door is spacious but small enough to be operated by everybody without any effort. The door is not equipped with a motor, it has no transmission and no safety devices and is therefore moderately priced.

- **Option: incl. speed limiter**
  Combined with a self-regulating speed limiter, which counteracts to a further increase of the peripheral speed as soon as the top limiting speed has been reached.

- **Option: incl. positioning device**
  As an alternative a manual revolving door can be equipped with a positioning device.
  For this purpose a motor and a drive unit is installed into the ceiling or the floor, which returns the turnstile to the final position at low speed and with a minimum of force after manual operation. Thus the next visitor has the possibility to directly enter the revolving door without having to rotate the leaves prior to entering. A further advantage is that the door is always in the final position which leaves a well-ordered optical impression.



Hotel La Casa, Tübingen

Manual GEZE revolving door with 3 leaves and night-time locking mechanism

Automatic revolving door with Push & Go function

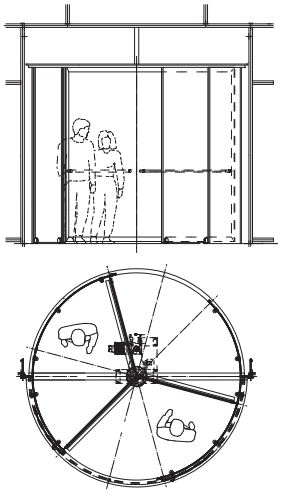
The automatic door with Push & Go function is suited for high access frequency without lack of comfort. An increased capacity is achieved by the greater diameter of the door system (up to max. 3600 mm). The automatic revolving door is activated by shortly pushing the revolving leaf. The automatic door system accelerates and then rotates in an adjustable automatic speed. The door is suited for objects with a constant circle of visitors who are familiar with the activation of the revolving door which is the case in office buildings as well as administrative buildings.

Fully-automatic revolving door

The fully-automatic door with movement detectors is suited for high access frequency. These door systems can be produced up to a maximum internal diameter of 3600 mm. The automatic revolving door is activated via inside and outside movement detectors. Upon activation the door accelerates and rotates in an automatic speed. Thus the revolving door offers high comfort and smooth and trouble-free passage. The automatic speed is adjustable and the after-running function can be freely adjusted for the modes of operation "summer" (elongated after-running) and "winter" (no after-running function). As further option a "button for the disabled" can be installed inside and outside of the door. By operating this switch the revolving speed is reduced in order to allow wheelchair users or hampered persons to pass the revolving door without any problems. This reduced speed can also be adjusted. At the end of the after-running period the revolving door reduces the speed in all modes of operation and stops in the final position, where the door leaf seals tightly against the side walls thus leaving all disturbing environmental determants such as draught, automobile exhaust, cold and noise outside.

All-glass revolving door

The revolving door with the GEZE all-glass system offers highest transparency. The entire drive and control technology are concealed in the floor. The high-quality surface of the aluminium profiles which are reduced to a minimum with soft edges implies discreet elegance. The drum walls of the all-glass revolving doors are made of curved laminated glass and only the glass edges have narrow cover profiles. The door leaves consist of finely-framed toughened safety glass and two half-shelves of annealed glass form the roof that is fixed by point fittings of stainless. GEZE realises individual, object-related solutions for revolving doors. Door systems with three and four leaves with clear passage heights of up to 3000 mm and freely selectable diameters of 1800 - 3300 mm can be realised as well as all mentioned types of drives.



CSC Plönzke, Wiesbaden

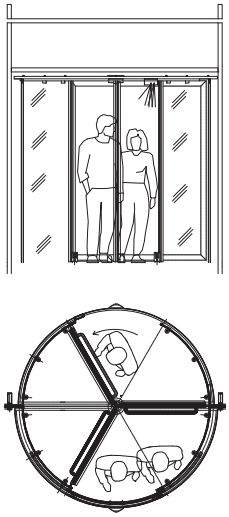
Fully-automatic GEZE revolving door with 3 leaves and outside night locking mechanism and movement detectors in the floor

Number of door leaves

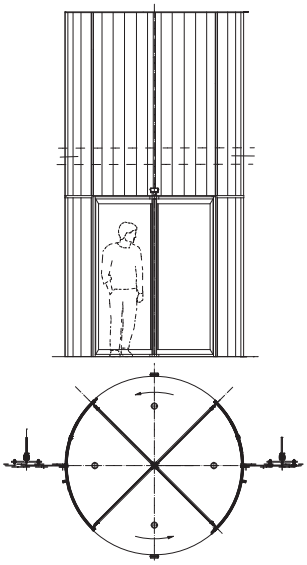
The decision for a revolving door with 3 or 4 leaves

The revolving door with 3 leaves has a slightly reduced passage capacity. However, it offers higher comfort in use, since there is more space between the door leaves. This higher comfort accommodates the elderly or disabled who cannot adapt themselves to the speed of the revolving door. This type of door is also suited for shopping centres where persons with shopping trolleys or families with prams use this type of door. The inner width of the door is smaller than that of a 4-leaves revolving door with the same diameter. This should be taken into account when planning the door system.

The revolving door with 4 leaves is the classic version with the highest capacity, suited for two-way traffic and a large stream of visitors. Due to the symmetric construction the drum of the revolving door is closed by two leaves which results in an improved protection against environmental influences and an improved air-trap effect. This type of door has a larger opening width and is optically very attractive due to its symmetric form.



Hella KGaA HBPO GmbH, Lippstadt
Automatic all-glass revolving door with 3 leaves with underfloor operator and night-locking mechanism



Daresbury Park, Warrington UK ·
Fully automatic all-glass revolving door with 4 leaves in sheet metal cylinder, height approx. 4.5 m

	TSA 325 NT All modes of operation	**TSA 325 NT GG** All modes of operation
Dimensions		
Inner diameter (freely selectable) (special dimensions on request)	1800–3600 mm	1800–3300 mm
Number of leaves	3 or 4 leaves	3 or 4 leaves.
Clear passage height (special dimensions on request)	2100– max. 3000 mm	2100– max. 3000 mm
Canopy height (depending on drive) (special dimensions on request)	75 mm/200 mm	16 - 20 mm glass roof
Revolving door for the use in escape and rescue routes	suitable	not possible
Door construction		
Side walls in all-glass panels 16 mm	●	●
Side walls with sheet panels 20 mm	●	not possible
Flat thermally insulated aluminium panels 34 mm	●	not possible
Screwless construction of toughened safety glass (ESG) 10 mm	●	●
Roof construction		
As dust protection roof with wood covering	●	not possible
Optical sheet covering	●	not possible
Waterproof roof with two waterspouts	●	not possible
Surface of the aluminium components		
Powder coating in accordance with RAL	●	●
Anodised	●	●
Colour anodised acc. to sample	●	●
Anodised similar to stainless steel	●	●
Covered with stainless steel, ground (grain size 240) mirror-polished	●	●
Night-time locking mechanisms and locking of the door		
Night-time locking mechanism manual and automatic	●	●
Night-time locking inside and outside running	●	outside running only
Night-time locking of curved laminated glass 10 mm (VSG) or curved aluminium panels	●	●
Manual locking of the door leaf	●	●
Automatic locking of the door leaf	●	not possible
Further options		
Door handles horizontal or vertical	●	●
Illumination with LEDs	●	not possible
Floor ring	●	●
Floor mat	●	●
Underfloor operator	●	●
Button for the disabled	●	●
Air curtain	●	on request

● = Option

Passage capacity

	3 leaves		4 leaves	
Internal diameter (exemplary)	Capacity Persons/hour	Persons/minute	Capacity Persons/hour	Persons/minute
2000 mm	1203	20	1604	26
2400 mm	1002	16	1336	22
2800 mm	1718	28	2291	38
3200 mm	2256	37	3008	50
3600 mm	2005	33	2673	44

All stated values refer to the maximum capacity in one direction and a peripheral speed of 0,7 m/s

Dimensions

Illustration: manual version, 3 leaves

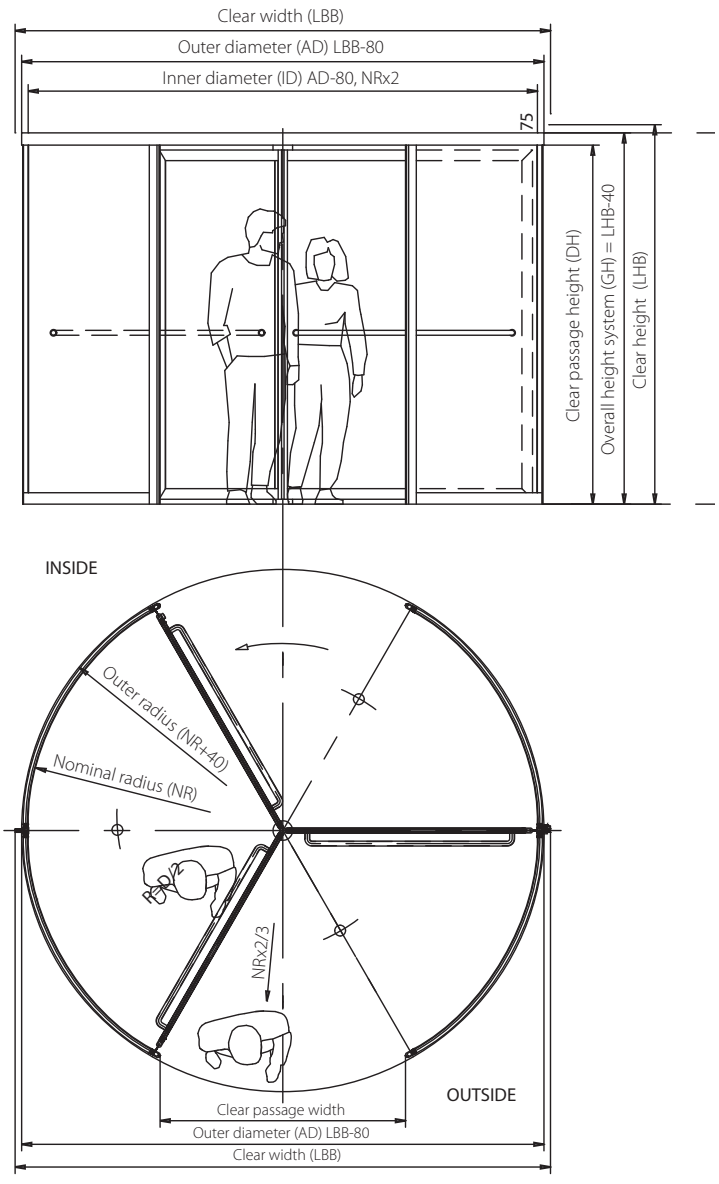
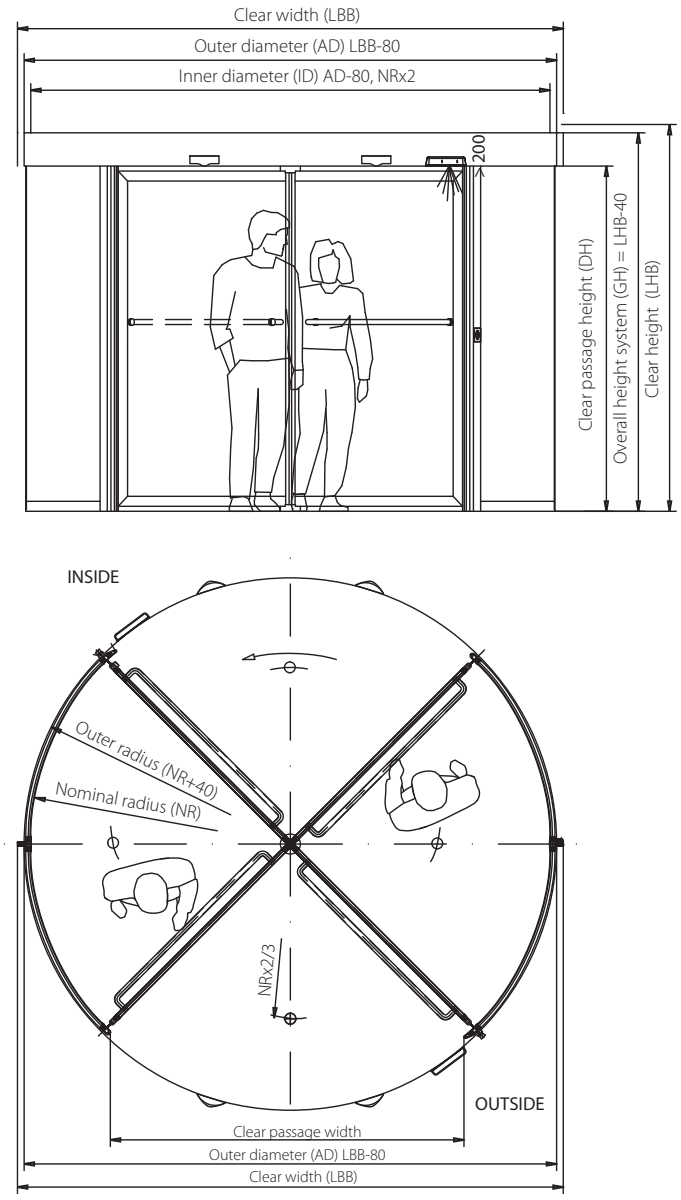
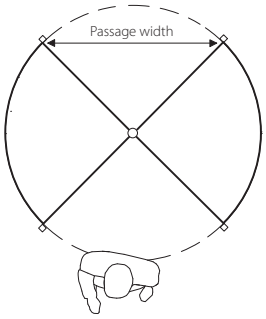


Illustration: actuated version, 4 leaves



Passage widths



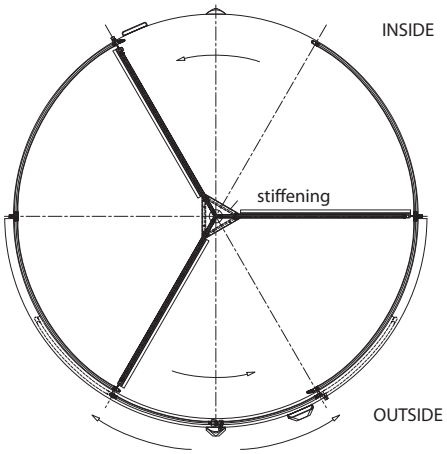
for manual revolving doors

	3 leaves	3 leaves	4 leaves	4 leaves
Inner diameter (exemplary)	Glass in frame	All-glass	Glass in frame	All-glass
2000 mm	945 mm	930 mm	1370 mm	1356 mm
2400 mm	1145 mm	1130 mm	1652 mm	1640 mm
2800 mm	1345 mm	1330 mm	1934 mm	1924 mm
3200 mm	1545 mm	1530 mm	2216 mm	2208 mm
3600 mm	1745 mm	1730 mm	2498 mm	2492 mm

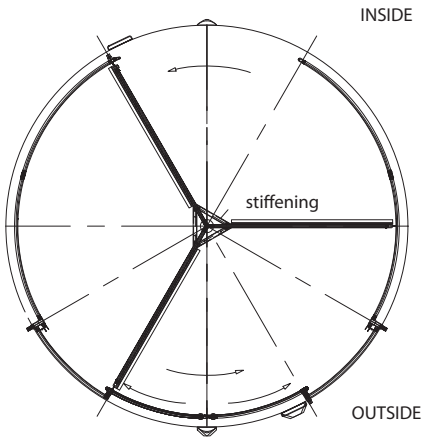
for automatic revolving doors

	3 leaves	3 leaves	4 leaves	4 leaves
Inner diameter (exemplary)	Glass in frame	All-glass	Glass in frame	All-glass
2000 mm	895 mm	883 mm	1325 mm	1323 mm
2400 mm	1097 mm	1083 mm	1609 mm	1607 mm
2800 mm	1297 mm	1283 mm	1893 mm	1891 mm
3200 mm	1497 mm	1483 mm	2177 mm	2175 mm
3600 mm	1697 mm	1683 mm	2461 mm	2459 mm

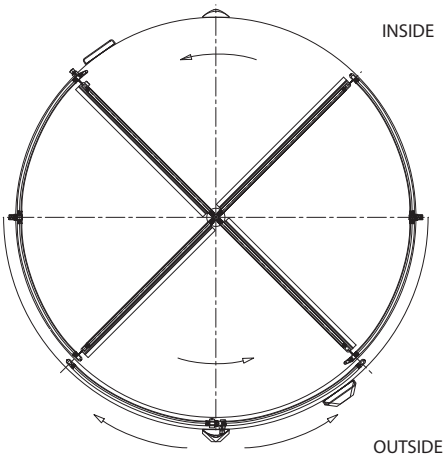
3 leaves with outside running night locking mechanism



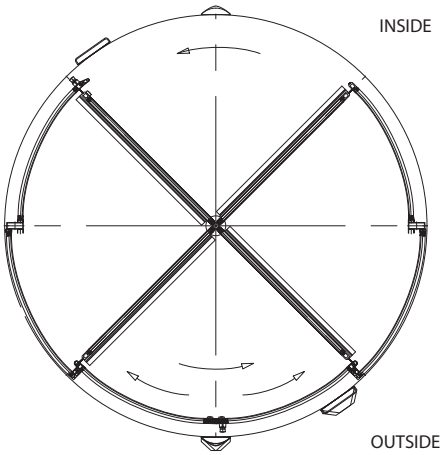
3 leaves with inside running night locking mechanism



4 leaves with outside running night locking mechanism



4 leaves with inside running night locking mechanism



Break-out function

GEZE revolving doors for the use in escape and rescue routes

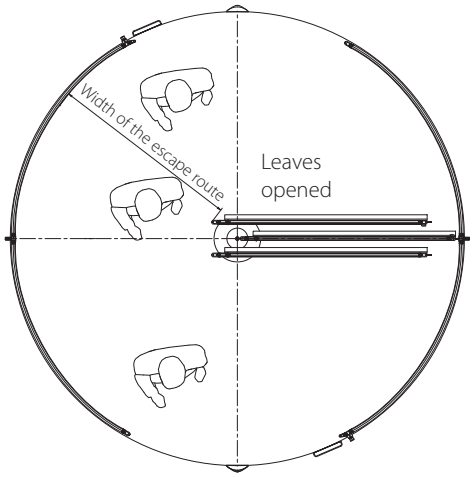
The GEZE revolving door with BO function (Break-out function) is suited for the use in escape and rescue routes. All leaves are pivoted and are mechanically held.
Breaking out is possible at approx. 220 N (default for breakout force in accordance with DIN 18650 and AutSchR). The force can be adjusted at each individual leaf using customary tools. The adjustment can be made without the necessity of dismantling any components.

The revolving door with BO function can be realised as door with 3 or 4 leaves,
either as manual, push & go or automatic door, however, not as all-glass revolving door (IGG).
The minimum canopy height is 200 mm, a floor ring is required in any case.

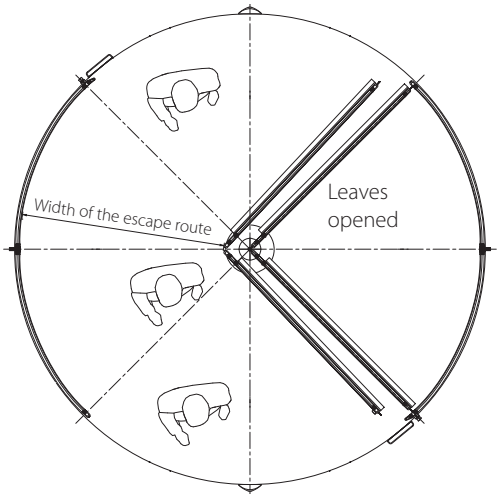
Maximum diameter: 3600 mm
Minimum diameter for a "reasonable" width of rescue route: 2600 mm.

The width of the escape way depends on the number of leaves and the drum diameter. It must be taken into account that the maximum width of the escape route can only be accomplished if the leaves are folded away to form a package and put aside.

TSA 325 NT BO version with 3 leaves



TSA 325 NT BO version with 4 leaves



Width of the escape route

	3 leaves	4 leaves
Internal diameter	Width of the escape route (FWB)	Width of the escape route (FWB)
1800 mm	650 mm	660 mm
2000 mm	750 mm	760 mm
2200 mm	850 mm	860 mm
2400 mm	950 mm	960 mm
2600 mm	1050 mm	1060 mm
2800 mm	1150 mm	1160 mm
3000 mm	1250 mm	1260 mm
3200 mm	1350 mm	1360 mm
3400 mm	1450 mm	1460 mm
3600 mm	1550 mm	1560 mm

Breaking out of a leaf will result in immediate disconnection of the drive. Afterwards it is possible to rotate the leaves manually (even when broken out).

Due to the manual breaking out function the use of TSA 325 NT BO is limited to max. 220 N in areas with increased wind load. Depending on the diameter and the clear height, GEZE revolving doors can be used up to a wind speed of max. 6 Beaufort (Bft). This is equal to approx. 49 km/h. If the leaves are only used for ventilation and transport purposes, the break-out force can be increased, which will result in an increased break-out safety in the case of wind pressure.

To prevent people from entering the building through the folding leaves, two leaves must be locked at the minimum. This can be done as follows:

- Two electromechanical locking devices
  or
- Night locking mechanism (automatic or manual)

Minimum canopy heights

in dependence of the type of drive

	Minimum canopy height
Manual revolving door	75 mm
Manual revolving door with speed limiter	200 mm
Manual revolving door with positioning device	200 mm
Automatic revolving door with push & go function	200 mm
Automatic revolving door	200 mm
Automatic revolving door with BO function	200 mm
Automatic revolving door with underfloor actuator	75 mm
Manual all-glass revolving door	16 mm
Manual all-glass revolving door with positioning device	16 mm
Automatic all-glass revolving door with push & go function	16 mm
Automatic all-glass revolving door	16 mm

Operating elements for automatic revolving doors

Mode of operation OFF

In the mode of operation "OFF" the motor is switched off and the door can be opened manually. This mode of operation is particularly suited for maintenance and cleaning of the door. All actuation elements are switched off.

Mode of operation Night

In the mode of operation "Night" the most different types of locking options can be selected for the revolving door.

- No locking
- Manual locking of the door leaves via a bar lock
- Locking with the electromechanical disk brake
- Electromechanical locking of the door leaves
- Locking with manual night locking
- Locking with automatic night locking

Mode of operation shop closing time

In the mode of operation "shop closing time" the door is actuated by the internal movement detectors only. It moves a preset number of sectors in automatic speed and will then stop in the target position.

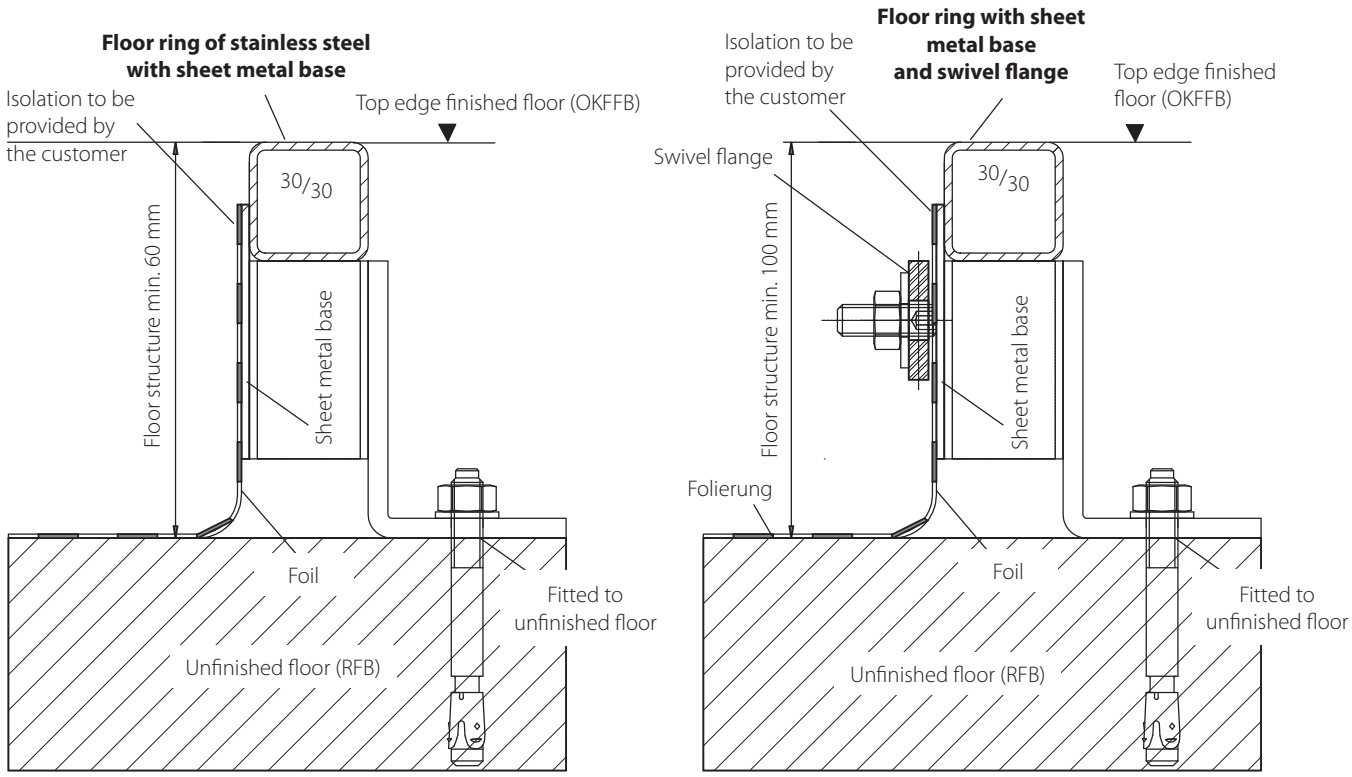
Mode of operation Automatic

In the mode of operation „Automatic" all connected pulse generators are active. After actuation the door accelerates to a preset automatic speed, rotates the preset number of sectors and then changes over to a reduced speed. The slower revolving speed and the after-running period can be preset. By simultaneously pressing the arrow keys you can change over to "winter operation". The after-running period will be omitted and the revolving door will slide to the end position. As an option it is possible to connect a button for the disabled. By operating this button the revolving speed is reduced, allowing older or hampered persons to pass though the door without any problems. The revolving speed and the overtravel time can also be preset.

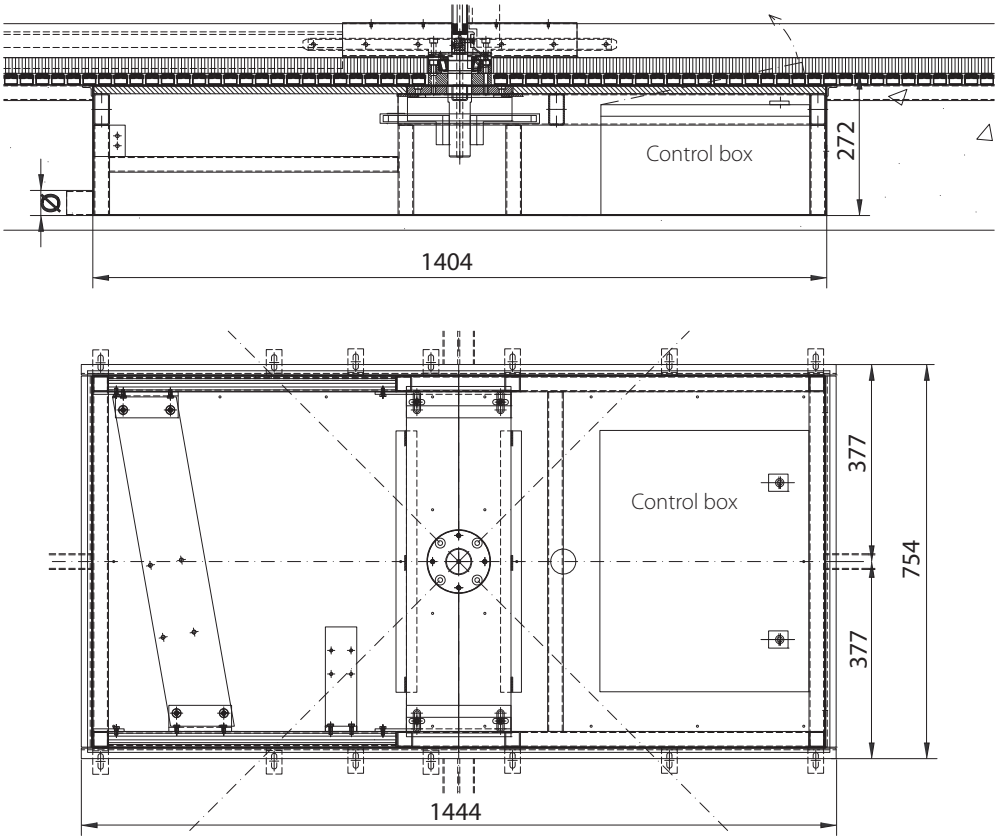
Mode of operation manual

In the mode of operation "manual" the revolving door can be freely rotated. If no further functions are set, the mode of operation "manual" is identical with the mode of operation "OFF". The following options can be set: a positioning device returns the door to the target position at a slower speed after people have passed through the door. Safety functions can be deactivated.

Types of floor rings


Floor ring of stainless steel with sheet metal base
Isolation to be provided by the customer
Top edge finished floor (OKFFB)
30/30
Floor structure min. 60 mm
Sheet metal base
Foil
Fitted to unfinished floor
Unfinished floor (RFB)
Floor ring with sheet metal base and swivel flange
Isolation to be provided by the customer
Top edge finished floor (OKFFB)
Swivel flange
30/30
Floor structure min. 100 mm
Sheet metal base
Folierung
Foil
Fitted to unfinished floor
Unfinished floor (RFB)

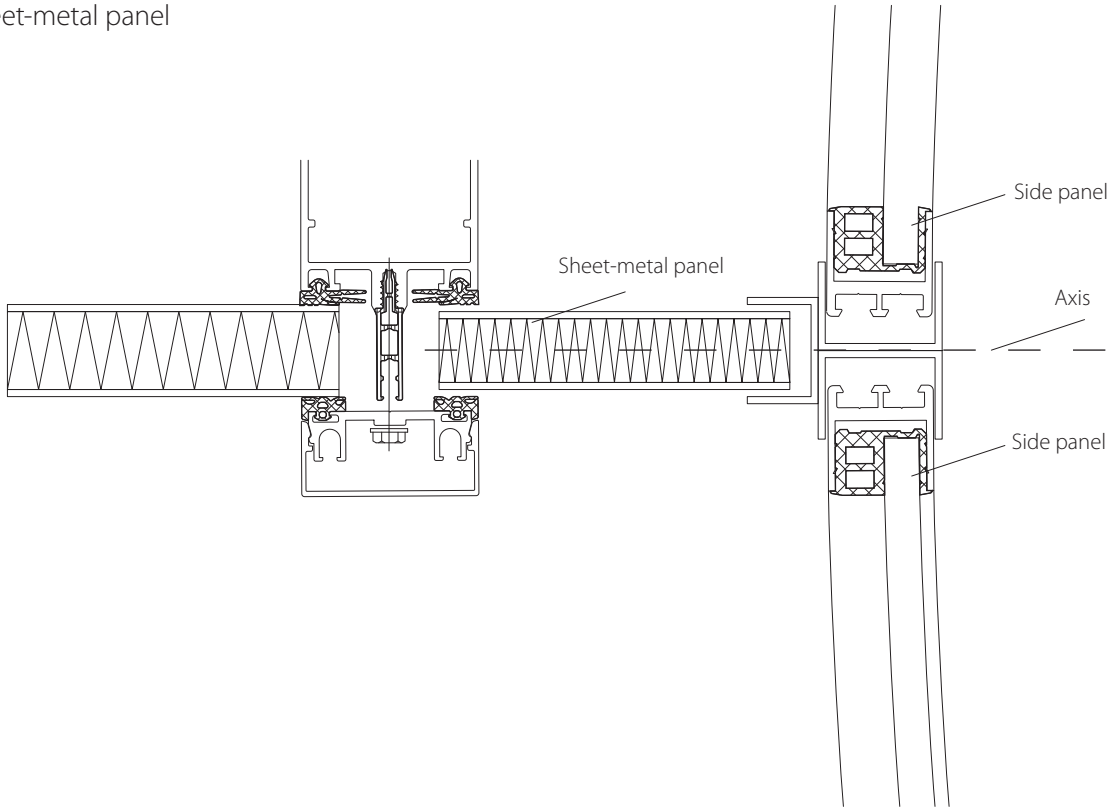
Underfloor operator



Note: If an external control is housed in a control cabinet (dimensions: approx. 500 x 600 x170 mm) at a distance of max. 20 m a small drive box (dimensions: approx. 714 x 900 x 280 mm) can be installed as well.

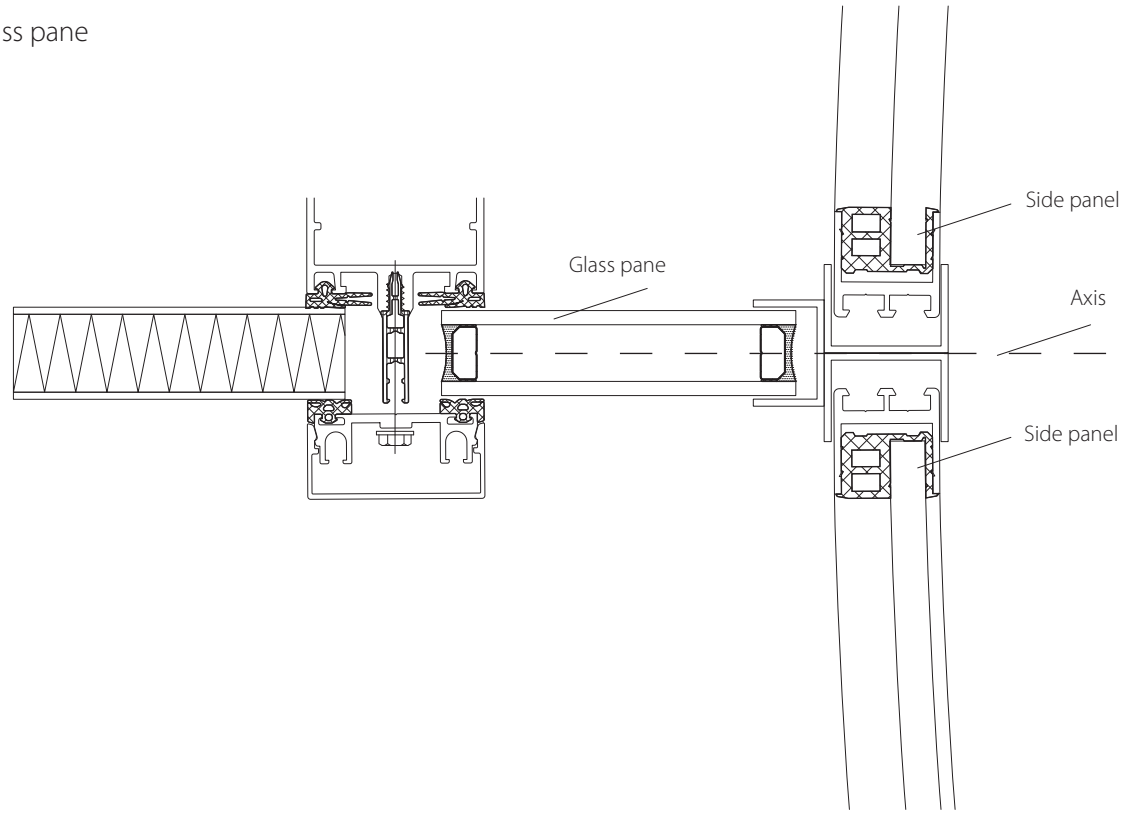
Façade connection

with sheet-metal panel



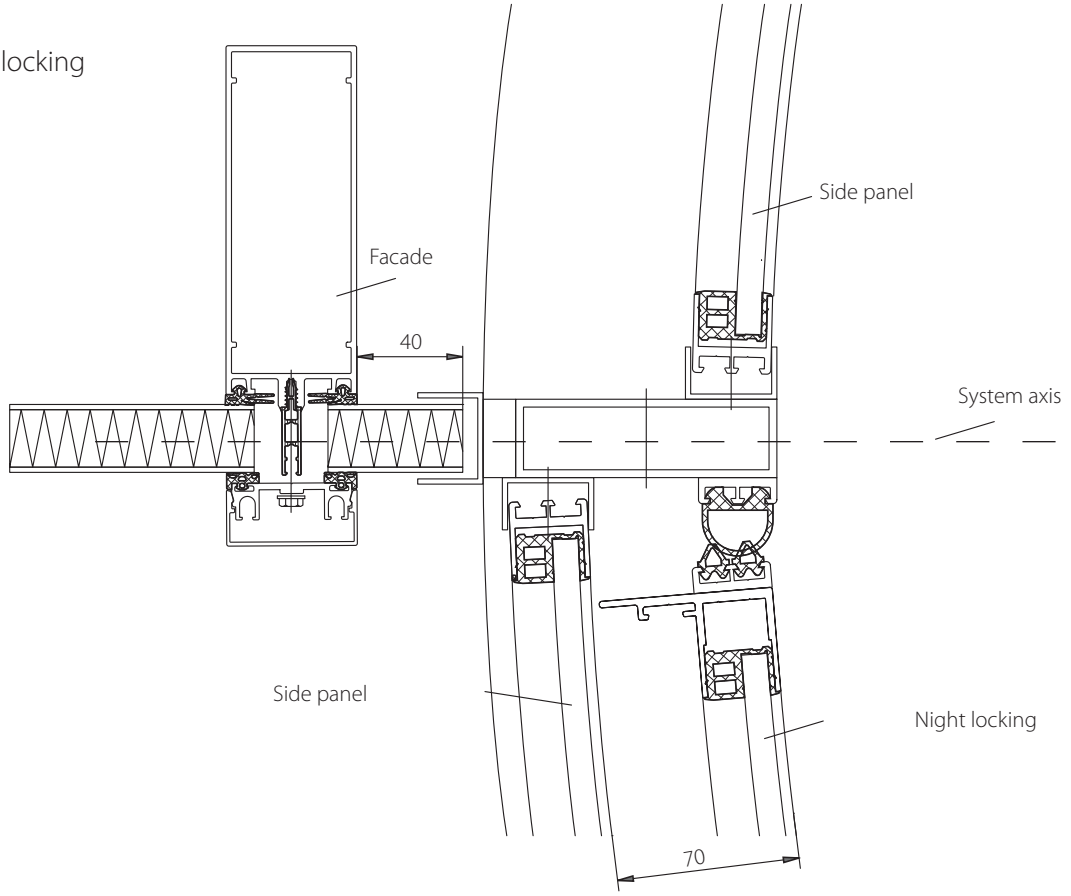
Façade connection

with glass pane



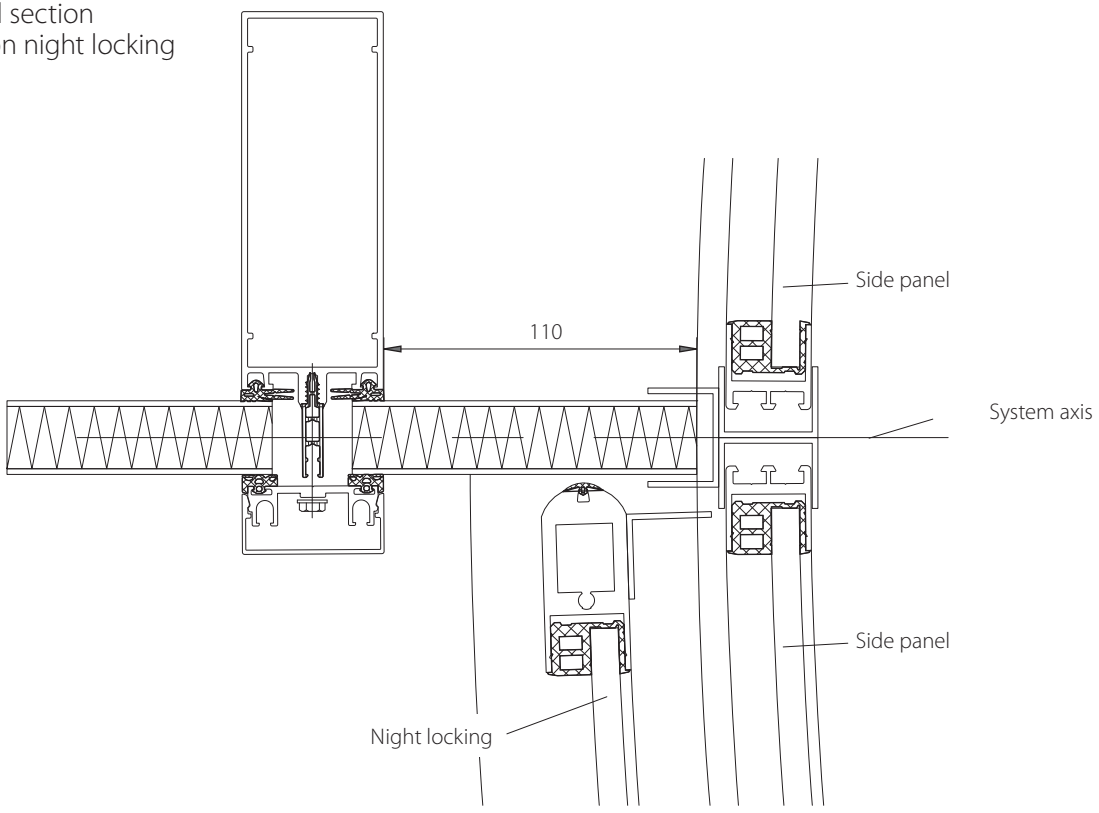
Night locking

Detail
inside night locking

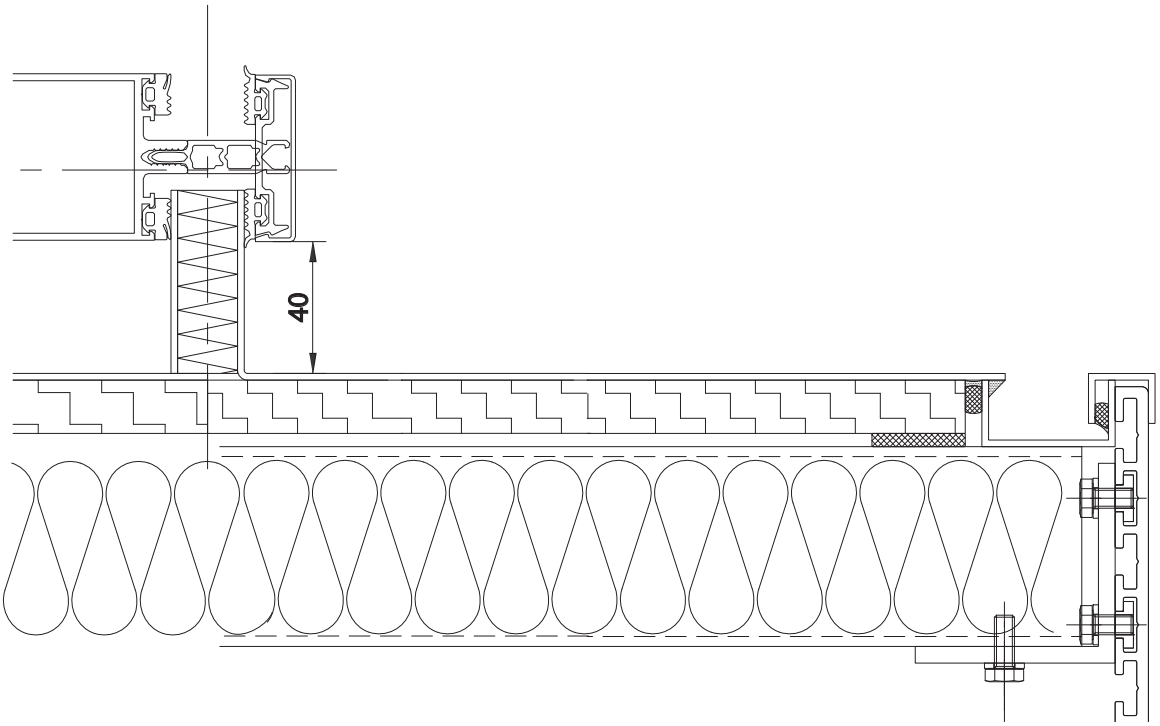


Night locking

Horizontal section
connection night locking

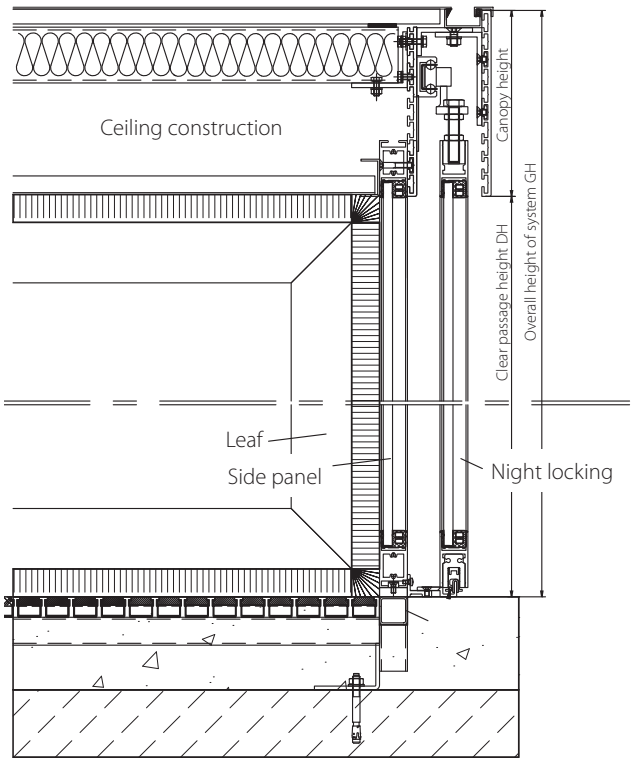


Connection roof TOP

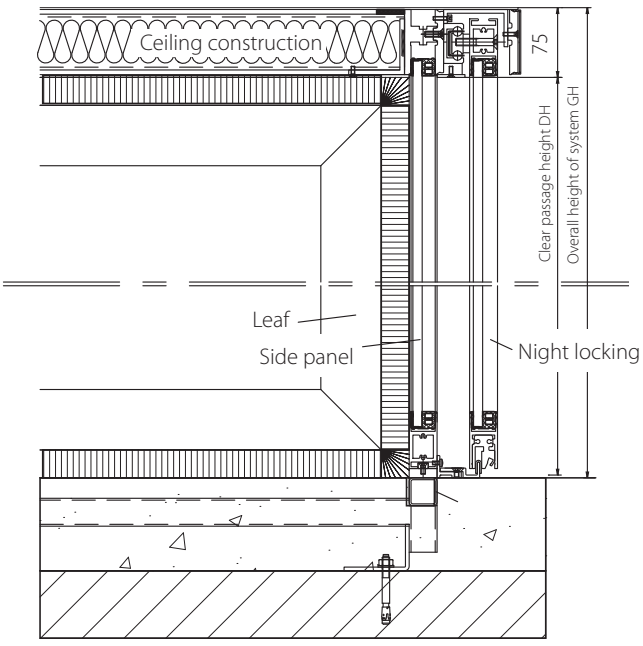


Night locking

Vertical section night locking
Automatic door

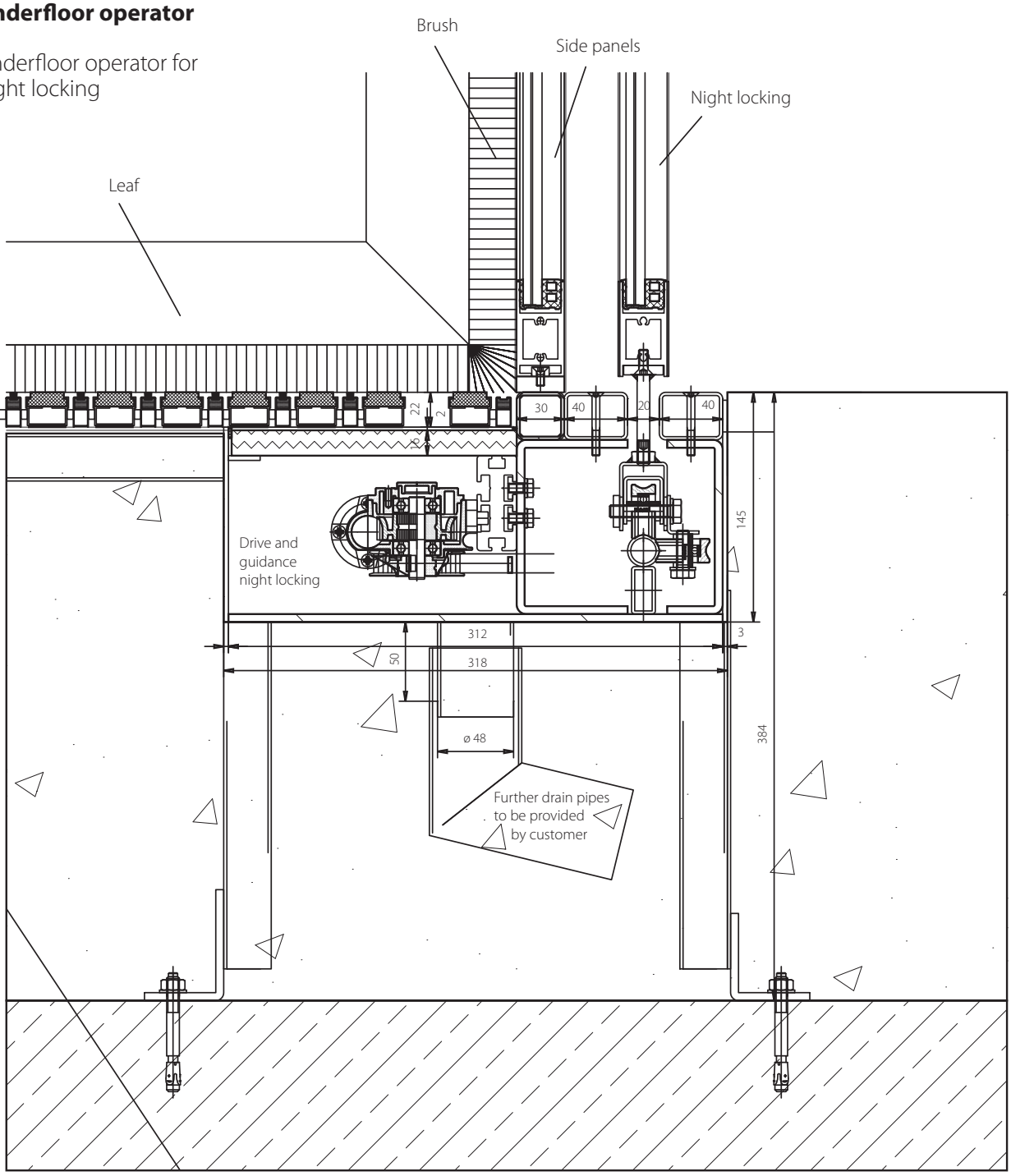


Vertical section night locking
Manual door



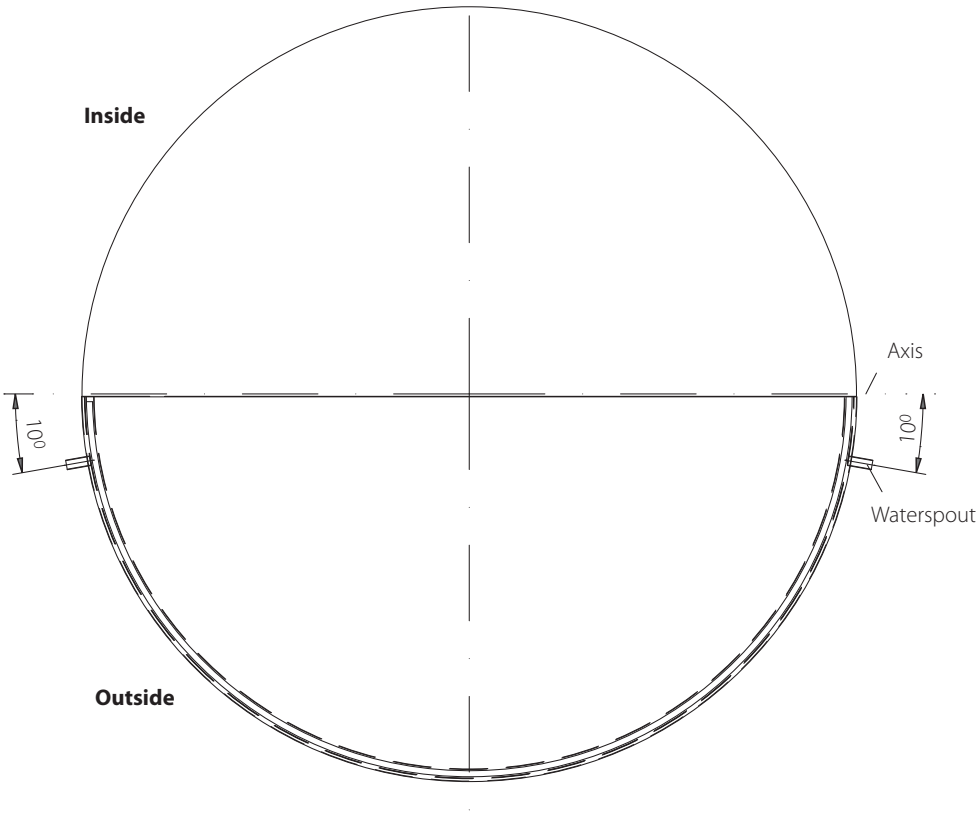
Underfloor operator

Underfloor operator for night locking



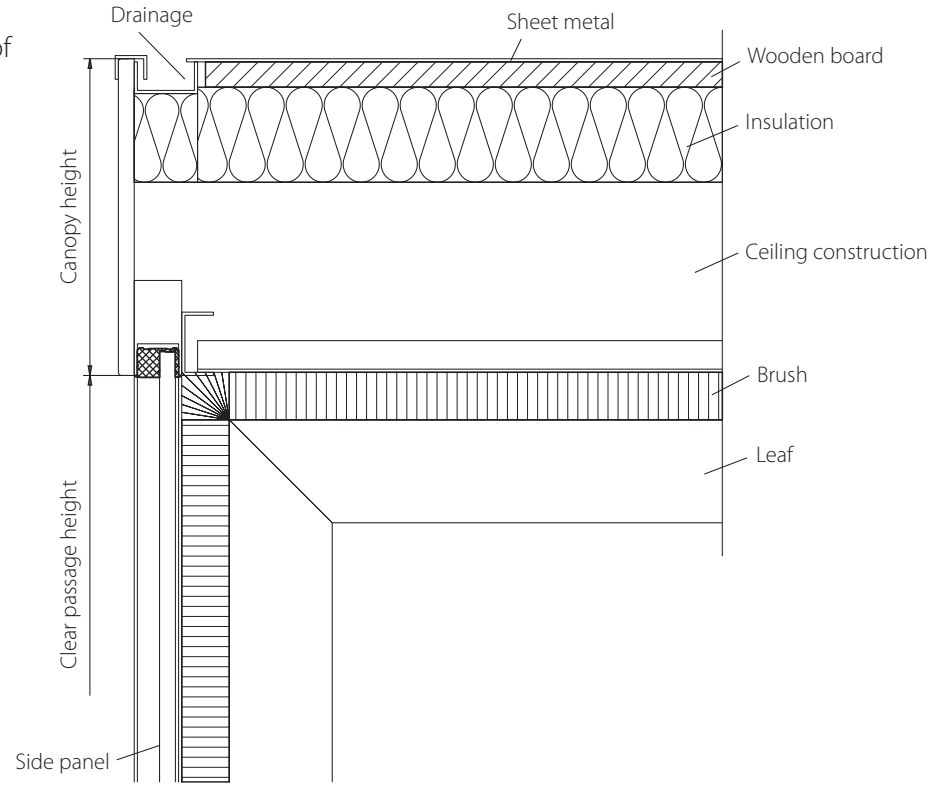
Weather roof

Top view weather roof



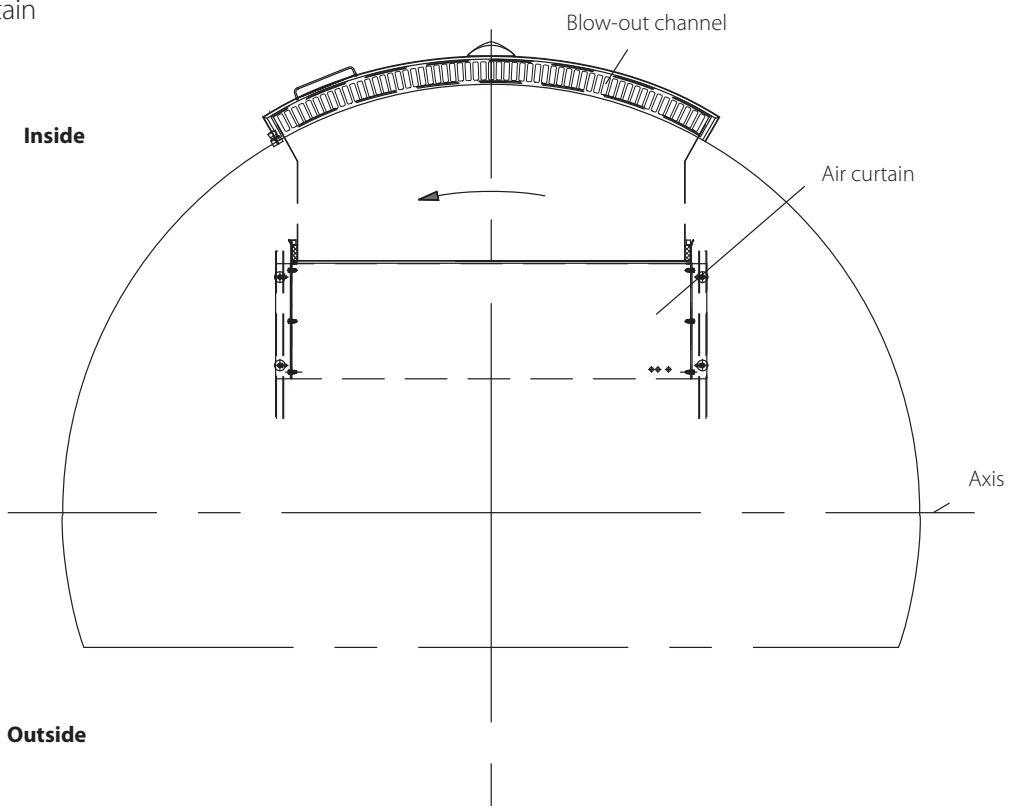
Weather roof

Vertical section weather roof



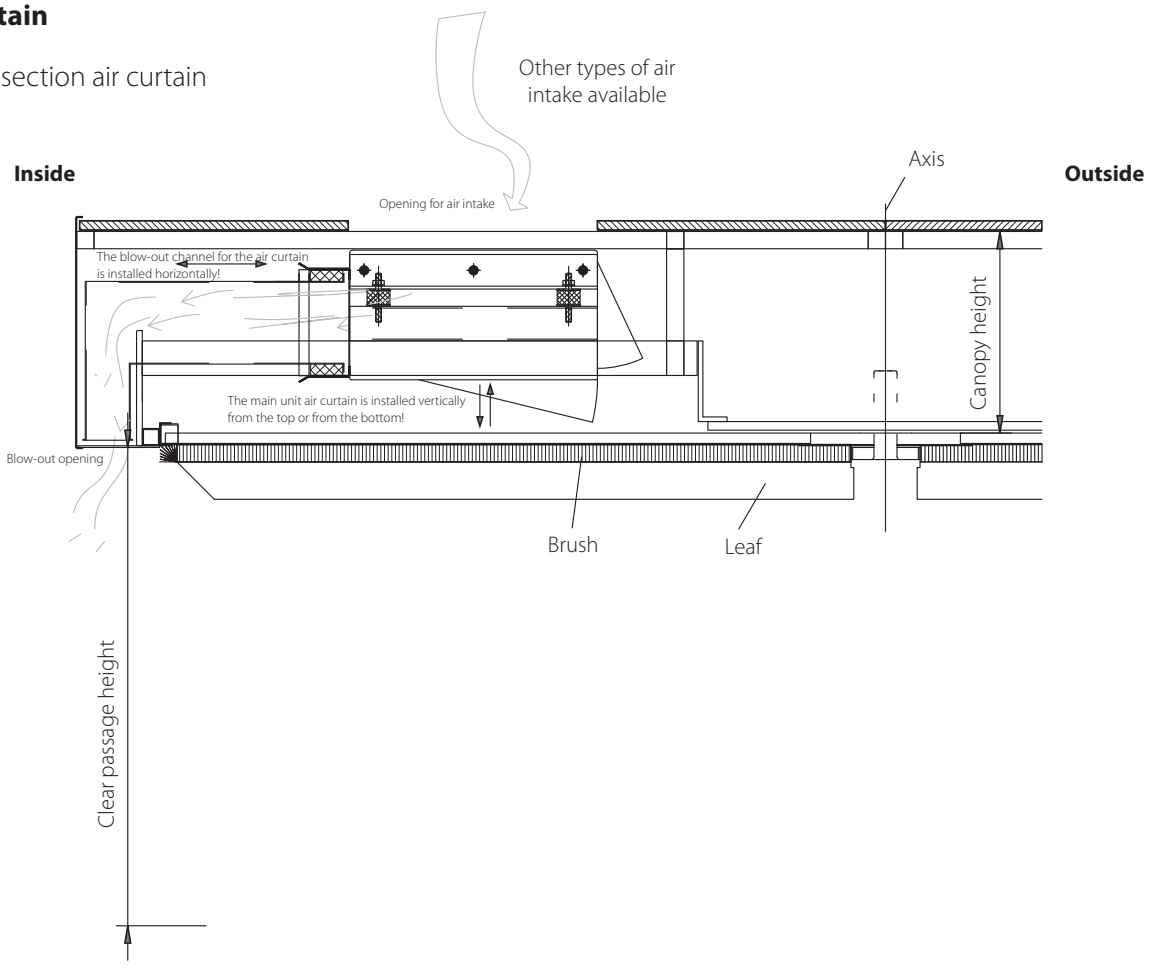
Air curtain

Top view air curtain



Air curtain

Vertical section air curtain



1 Movement detector inside

2 Movement detector outside

3 Anterpost safety sensor

4 Emergency Off button inside and outside

5 Programming keypad

6 Key-operated switch

7 Warning label inside and outside

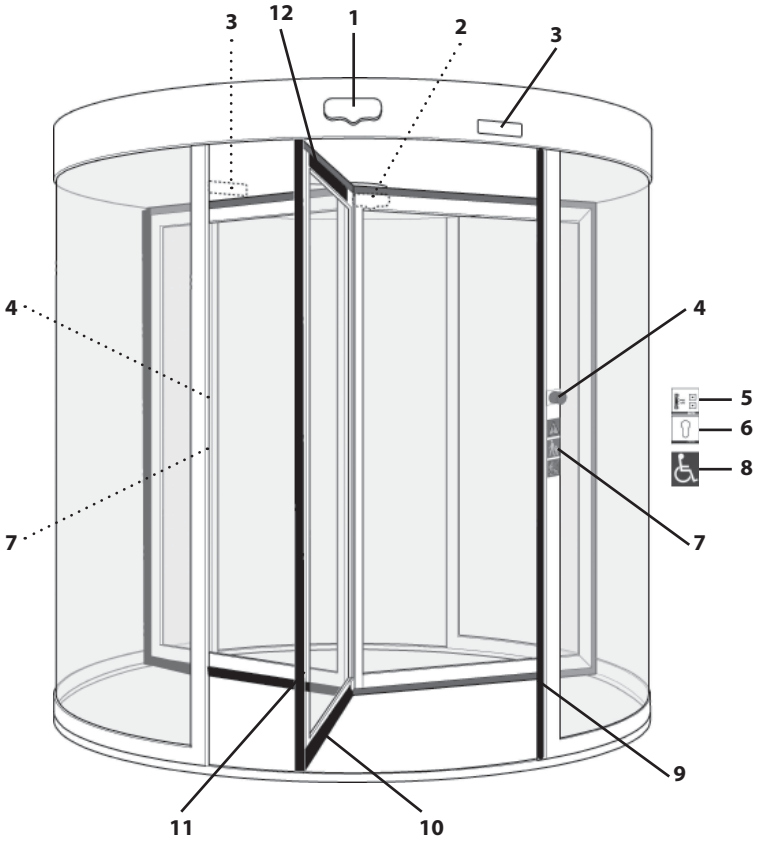
8 Button for the handicapped (optional)

9 Post safety device

10 Heel protecting strip

11 Safety contact strip vertical

12 Mobile safeguarding device (optional)



Explanation of the safety devices and the sensor technology

Movement detectors inside and outside
The inside and outside movement detectors are fixed to the ceiling canopy and work on a radar basis. The movement detectors are used for automatic revolving doors as actuating element. The detection zone of the sensor can be adjusted.

Anterpost safety sensor
The anterpost safety sensor is a presence sensor that works on an active infrared basis. It detects the area in front of the post by means of a light curtain which is activated, as soon a one of the leaves of the revolving door approaches the post. The detection zone of the sensor is adjustable. As an option a less complex sensor can be installed into the ceiling canopy. This simple sensor does not comply with DIN 18650 and is not approved for use in Germany.

Emergency OFF button inside and outside
The emergency OFF button inside and outside is mounted to the stationary side panel and releases an emergency stop if operated which brings the revolving door to an immediate standstill. After braking the door can be manually operated or opened into both directions.

Programming keypad
The different modes of operation of an automatic revolving door can be set using the programming keypad.

Key-operated switch
The operation of the programming keypad by unauthorised persons can be prevented by installing a key-operated switch.

Explanation of the safety devices and the sensor technology

Warning labels inside and outside
Warning labels must be attached to each revolving door to make parents aware of their obligation to take care. A revolving door is no playground.

Buttons for the handicapped
The button for the handicapped is attached at the inside and outside of the stationary side panel or near a wall or façade. When operating the button for disabled the revolving speed of the door is reduced in order to allow older or hampered persons to pass through the door. The speed and duration of activation can be adjusted.

Post safety device
The post safety device is a rubber safety strip that is attached to the main closing edge of the fixed side panel of the revolving door. Upon operation this safety strip releases an emergency stop of the door.
Upon release of the emergency stop the revolving door is brought to a standstill, the door stops for an adjustable period of time and will then continue closing in the preset mode of operation and speed.

Heel protecting strip
The heel protecting strip is a rubber safety strip, which is attached horizontally at the bottom of one of the leaves of the revolving door. The safety strip prevents that an obstacle or a person is seized by the moving leaves. As soon as the safety strip gets in contact with an obstacle or a person, an emergency stop is released and the revolving door stops immediately.
Upon release of the emergency stop the revolving door is brought to a standstill, the door stops for an adjustable period of time and will then continue closing in the preset mode of operation and speed.

Safety contact strip vertical
The safety contact strip is a rubber safety strip that is attached vertically at the outer edge of the leaves and that prevents persons from being drawn in. As soon as a person or a part of the body gets in contact with the safety strip, an emergency stop is released and the revolving door is stops immediately. Upon release of the emergency stop the revolving door is brought to a standstill, the door stops for an adjustable period of time and will then continue closing in the preset mode of operation and speed.

Mobile safeguarding device
"Mobile safeguarding devices" are optical sensors, which are attached to the top edge of the leaves. They work after the infrared principle and optically scan the area in front of the moving leaves of a revolving door. As soon as the sensor detects an obstacle or a person, the revolving door is stopped. If the obstacle remains within the detection zone of the sensor the speed of the revolving door is reduced until the moving leaf stops in front of the obstacle. The sensitivity and the detection zone are adjustable.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Product Service

ZERTIFIKAT

Nr. Z2 08 08 62010 003

Zertifikatsinhaber: **GEZE Sonderkonstruktionen GmbH**
Planken 1
97944 Boxberg-Schweigern
DEUTSCHLAND

Produktions-stätte(n): 62010

Prüfzeichen: Type tested · Production monitored · TÜV SÜD · DIN 18650

Produkt: **Automatische Türsysteme Karusselltür**

Modell(e): **TSA325NT, Typenschlüssel siehe Seite 2**

Kenndaten:

Elektromechanisches Türsystem
zum Einsatz in Fußgängerbereichen

Nennspannung:	230 V
Nennfrequenz:	50 Hz
Nennaufnahme:	350 W (ohne Beleuchtung) Beleuchtung mit max. 60 W (je Leuchte max. 1 W)
Schutzklasse:	I
Schutzart:	IP44 (Außenimpulsgeber IP 54)

Ausführung mit schwenkbaren/klappbaren Flügeln geeignet für den Einsatz in Flucht- und Rettungswegen nach AutSchR

Die Tür ist bei Verwendung von mitfahrenden berührungslosen Sensoren zur Nutzung von besonders schutzbedürftigen Personen geeignet.

weitere Kenndaten siehe Seite 2

Geprüft nach: DIN 18650-1:2005
DIN 18650-2:2005

Das Produkt wurde auf freiwilliger Basis auf die Einhaltung der grundlegenden Anforderungen geprüft und kann mit dem oben abgebildeten Prüfzeichen gekennzeichnet werden. Eine Veränderung der Darstellung des Prüfzeichens ist nicht erlaubt. Umseitige Hinweise sind zu beachten.

Prüfbericht Nr.: 71324968A

Datum, 2008-09-10

Seite 1 von 2

TÜV SÜD 328946

TÜV SÜD Product Service GmbH · Zertifizierstelle · Ridlerstrasse 65 · 80339 München · Germany

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Zertifikat
Nr. Z2 08 08 62010 003

TÜV SÜD Product Service

Typenschlüssel

TSA325NT- A3-GG-NV

	ohne Nachtverschluss
NV	manueller Nachtverschluss
ANV	automatischer Nachtverschluss
INV	innenliegender Nachtverschluss
IANV	innenliegender automatischer Nachtverschluss
	Standardanlage
GG	Ganzglasanlage
3	Flügel
4	Flügel
A	Automatik
S	Servo
P	Positionierautomat
M	Manuell
	Karusselltür

Kenndaten

Nenndrehzahl	Einstellbar unter 1 m/s am Umfang
Sicherheitsabstand	Fingersicherheit größer 25 mm Bürstenbreite
Sicherheitssensoren	Schaltleiste Pfosten - / Hand - / Fersensicherheit, Vorpfostensicherheit, Anfahrsicherheit
Kraftbegrenzung	Einstellbar auf Normwerte, Einmessung am jeweiligen Muster durch Impulsmessung. (mit Schaltleiste Pfostensicherheit und Handsicherheit). Eine dokumentierte Kraftmessung ist an jeder Tür notwendig.

Kennziffer / Klassifizierung	**Klasse**	
1 Antriebsart	5	Karusselltürantrieb
2 Dauerhaftigkeit	3	1 000 000 Testzyklen
3 Türflügelbauart	5	Karusselltür
4 Brandschutztür	0	nicht geeignet
5 Sicherheitseinrichtung am Antrieb	1	Kraftbegrenzung
	2	Anschluss für Sicherheitssysteme
	3	Niedrigenergie
6 Besondere Anforderungen	0	keine
7 Sicherheit am Türflügel (Anhang B Karusselltüren)	1	ausreichende Sicherheitsabstände:
	2	Fingerschutz: Schaltleiste B=HS/IW
	3	Break Out, Optional
	4	Anwesenheitssensoren: A=HS/GS
8 Umgebungstemperatur	2	–15 °C bis +50 °C

Seite 2 von 2

TÜV SÜD Product Service GmbH · Zertifizierstelle · Ridlerstrasse 65 · 80339 München · Germany

Wiring diagram revolving door ceiling mounted

LS	Light switch (by customer)
NSI	Emergency stop button inside [1]
NSA	Emergency stop button outside [1]
PS	Programme switch
ZU	Timer
BTI	Button for disabled inside
BTA	Button for disabled outside
KIR	Contactor inside (KI) radar
KAR	Contactor outside (KA) radar
KIT	Contactor inside (KI) button [2]
KIA	Contactor outside (KI) button [3]
KB	Contactor authorised (KB) [4]
LSG	Switchgear for air curtain
RTI	Room thermostat in the interior

1) Install emergency stop switches at all access points
2) Several contactors inside (K) may be installed
3) Several contactors outside (K) may be installed
4) Several contactors authorised (KB) may be installed

Notes :
Wiring in accordance with VDE 0100

Wiring, connection and start-up must only be carried out by authorised electricians.

GEZE will not assume any warranty or provide service if GEZE products are combined with third-party products.

Additional actuation elements for the revolving door drive are installed within the profiles located outside or within the door drum.

The cables stated in this wiring diagram must be laid by the customer.

The wiring diagram is only a schematic representation. The exact routing of the cables must be determined on site.

Cable and water connections must be made by a specialist company commissioned by the customer.

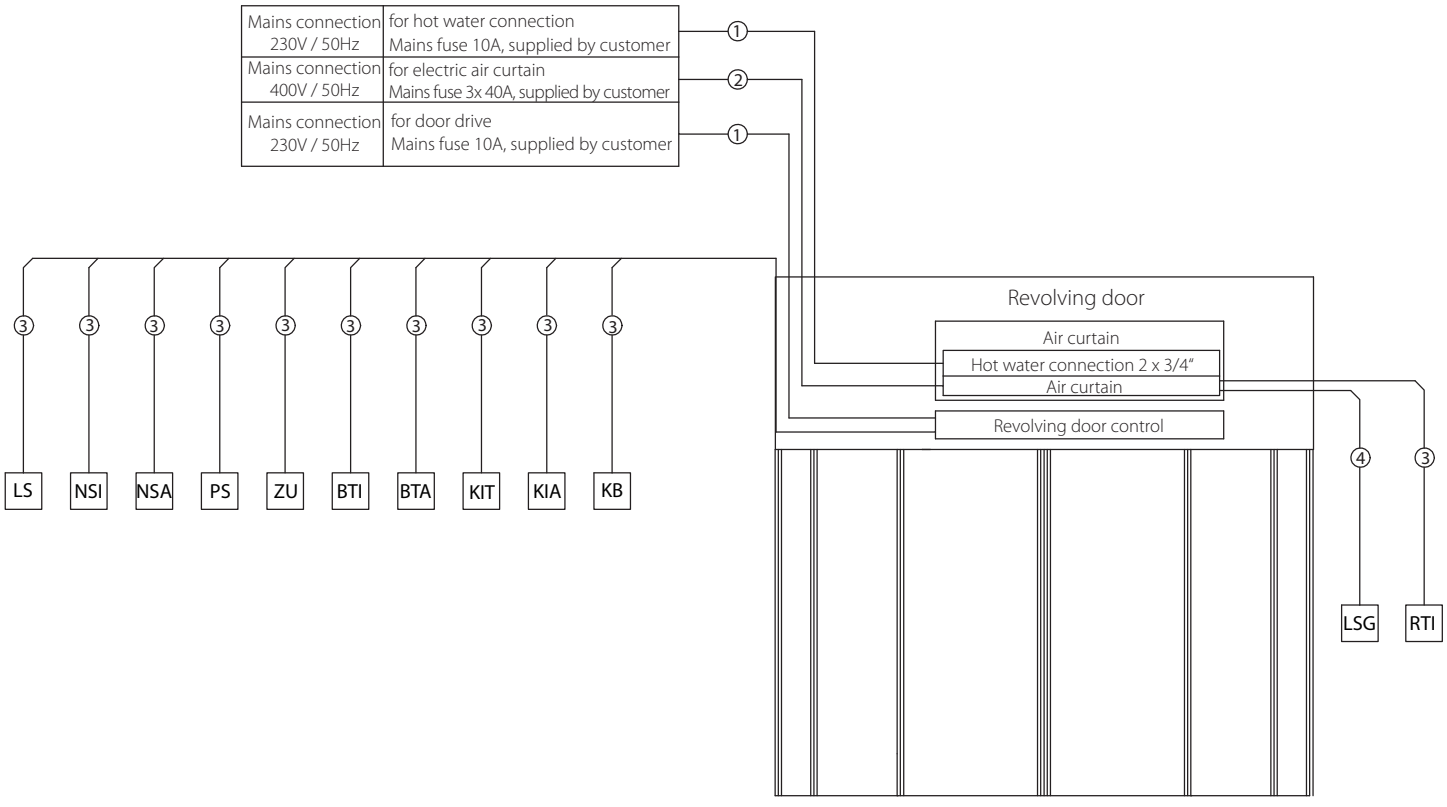
Cable :

① NYM-J 3 x 1,5 mm²

② NYM-J 5 x 1,5 mm²

③ JE-Y(ST)Y 2 x 2 x 0,8 mm

④ JE-Y(ST)Y 10 x 0,8 mm
max. 20 m



The cable must protrude at least 6 m out of the wall

Wiring diagram revolving door underfloor installation

LS	Light switch (by customer)
NSI	Emergency stop button inside [1]
NSA	Emergency stop button outside [1]
PS	Programme switch
ZU	Timer
BTI	Button for disabled inside
BTA	Button for disabled outside
KIR	Contactor inside (KI) radar
KAR	Contactor outside (KA) radar
KIT	Contactor inside (KI) button [2]
KIA	Contactor outside (KI) button [3]
KB	Contactor authorised (KB) [4]
LSG	Switchgear for air curtain
RTI	Room thermostat in the interior

1) Install emergency stop switches at all access points
2) Several contactors inside (K) may be installed
3) Several contactors outside (K) may be installed
4) Several contactors authorised (KB) may be installed

Notes :
Wiring in accordance with VDE 0100

Wiring, connection and start-up must only be carried out by authorised electricians.

GEZE will not assume any warranty or provide service if GEZE products are combined with third-party products.

Additional actuation elements for the revolving door drive are installed within the profiles located outside or within the door drum.

The cables stated in this wiring diagram must be laid by the customer.

The wiring diagram is only a schematic representation. The exact routing of the cables must be determined on site.

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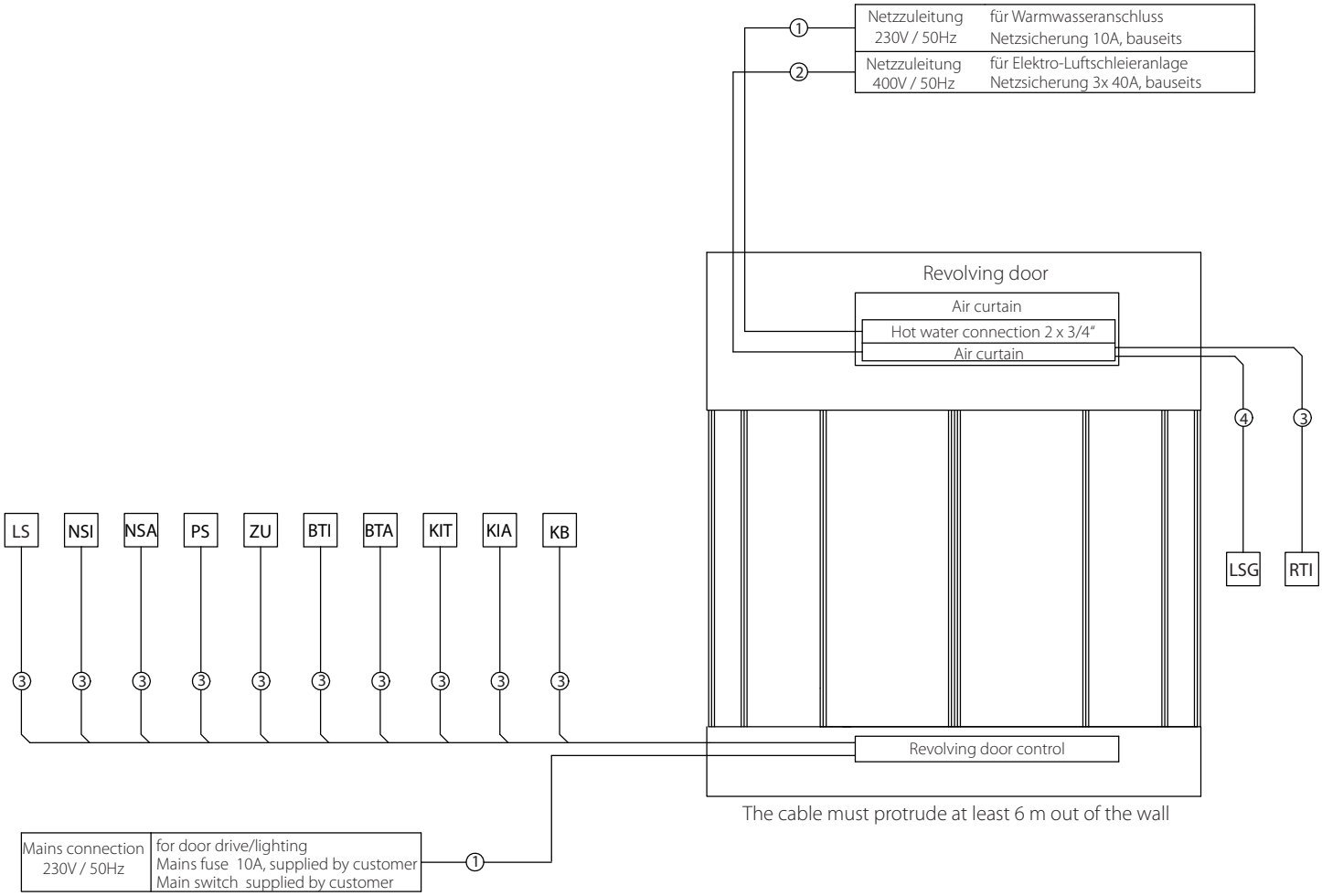
① NYM-J 3 x 1,5 mm²

② NYM-J 5 x 1,5 mm²

③ JE-Y(ST)Y 2 x 2 x 0,8 mm

④ JE-Y(ST)Y 10 x 0,8 mm
max. 20 m



The cable must protrude at least 6 m out of the wall

Specification text GEZE TSA 325 NT

Revolving door system with 3 or 4 leaves
with freely selectable inner diameter of max. 3600 mm,
TÜV type tested in accordance with DIN 18650,
with fine frame,
with different types of drive and a variety of features

Types of drive:
- **Manual operation of the door**

or
- **Manually operated door with GEZE speed limiter,**
  i.e. the max. speed of the revolving door is limited by a safety mechanism installed in the door.

or
- **Manually operated door with GEZE positioning device,**
  i.e. the manual door is returned to the initial position /final position at a very low speed.

or
- **Half-automatic GEZE drive / Push&Go**
  (Activation of the drive by slightly pressing against the door leaf):
  microprocessor-controlled, electromechanical drive with infinitely variable speed,
  Drive with two adjustable speeds.
  Complete drive with control in the interior.
  Control of category 2 or 3 in accordance with DIN EN 954-1;
  Power supply: 230 V / 50 Hz / 350 W / 10 A,
  Programming keypad to set the modes of operation.
  Sensors in accordance with DIN 18650 (TÜV type-tested and certified) consisting of:
  - Post safety sensor
  - Anterpost safety sensor (contactless)
  - Safety contact strip horizontally attached to the leaf (heel protection)
  - Safety contact strip vertically attached to the leaf (hand protection)
  - Mobile safeguarding device attached to the leaf (contactless, as of diameter > 3000 mm)

or
- **Fully-automatic GEZE revolving door system**
  (actuation via movement detector)
  Microprocessor-controlled, electromechanical drive with infinitely variable speed, drive with two adjustable speeds.
  Complete drive with control in the interior,
  Control of category 2 or 3 in accordance with DIN EN 954-1;
  Power supply: 230 V / 50 Hz / 350 W / 10 A,
  Programming keypad to set the modes of operation.
  Sensors in accordance with DIN 18650 (TÜV type-tested and certified) consisting of:
  - Post safety sensor
  - Anterpost safety sensor (contactless)
  - Safety contact strip horizontally attached to the leaf (heel protection)
  - Safety contact strip vertically attached to the leaf (hand protection)
  - Mobile safeguarding device attached to the leaf (contactless, as of diameter > 3000 mm)

Dimensions:
- Inner diameter: ... mm
  (freely selectable between 1800 and 3600 mm)
- Outer diameter: ... mm
  (freely selectable between 1880 and 3680 mm)
- Clear passage height DH: ... mm
  (up to 3000 mm, higher on request)
- Overall height of door system: ... mm
- Floor recess: ... mm (min. 60 mm)

Note: Variant dimensions on request!

Version:
- 3 leaves
- 4 leaves

Turnstile:
- Rigid door leaves finely framed to hold toughened safety glass 8 mm

or
- Folding / swivelling leaves suited for the use in escape and rescue routes and for ventilation purposes with a canopy height of only 200 mm
  Note: A suitable escape and rescue route must have an inner diameter of at least 2600 mm.
  Max. wind load 6 Beaufort.

Drum walls finely framed of GEZE aluminium profiles to hold:
- curved laminated glass 10 mm, clear **or**
- curved thermally insulated panel filling, thickness 22 mm **or**
- flat thermally insulated panels, thickness approx. 34 mm

Ceiling construction of aluminium:
- Standard height 200 mm, 70 mm for manual door and doors with underfloor operator **or**
- Raised ceiling canopy ... mm, with all-around canopy cover of curved aluminium sheet

Roof covering outside the building:
- as dust-proof roof with wooden board **or**
- optical sheet-metal covering **or**
- waterproof with 2 waterspouts (flat roof without descent)

Roof covering inside the building:
- as dust-proof roof with wooden board **or**
- optical sheet-metal covering

Soffit:
- consisting of aluminium circle segments in system colour including inspection opening **or**
- consisting of stainless steel aluminium circle segments grain 240, including inspection opening

Surface of aluminium parts:
- Powder-coated RAL-/DB-/NCS colours **or**
- LM anodised E6/EV1 **or**
- Colour anodised ... **or**
- Stainless steel like anodised (like polished), up to max. d = 3000 mm system diameter **or**
- Covered with stainless steel polished, grain 240 **or**
- Covered with stainless steel polished

Floor ring:
- GEZE 360° stainless steel (V2A)
  Floor ring of rectangular tube 30x30x2 mm. The floor rings simultaneously serves as bordering of the floor covering.
  - Sheet-metal base 100 mm **and/or**
  - Swivel flange (30x5 mm) **and/or**
  - Base plate with discharge nozzle

or
- Direct mounting of the self-supporting drum construction to the top edge of the finished floor. Information: Only possible with load-bearing and plane finished floor. Not suited for versions with folding/ swivelling leaves.

Note:
The insulation of the building is an outside service and has to be carried out by the customer.

Floor covering:
- ► GEZE floor mat, colour anthracite, 22 mm, other colours on request! **or**
- ► 18 mm coco mat in natural colours (delivery only, laying by the technical crew of floor fitters) **or**
- ► 4 mm black rubber nap mat (delivery only, laying by the technical crew of floor fitters) **or**
- ► Floor covering to be laid by customer

Delivery and installation:
Electric wiring to be carried out by electric company commissioned by the customer in accordance with the project-related GEZE wiring diagram, delivery, installation and start-up by GEZE fitters or service partner. Preparation of a safety analysis and handover of this safety analysis to the user. Briefing of the user of the door system. Handover of the user manual and test manual. Affixing of test sticker badge.

Possible item: Night locking
GEZE night locking sliding doors, sliding on outside, manual, Locking from inside and outside.
Revolving doors with a canopy of 70 mm and 4 leaves are only available up to a max inner diameter of 3000 mm.
- ► Finely framed laminated glass 10 mm, clear **or**
- ► with aluminium panels

Locking of the sliding doors with night locking mechanism with:
- ► snap lock **or**
- ► bar lock

or:
GEZE automatic sliding doors with night locking mechanism, incl. dead man's control and power pack for emergency opening in the case of power failure.

Manual night locking mechanism sliding on the inside upon request!

Possible item: Locking of the turnstile
- ► no locking **or**
- ► manual locking with GEZE extended bolt lock in the leaf, prepared for profile half-cylinder to be provided by customer **or**
- ► locking by means of electrically operated GEZE disk brake **Note:** Canopy height at least 200 mm **or**
- ► electromechanical locking (bi-stable); in the case of power failure the previous door status of the door is maintained. Min. canopy height 200 mm.

Note: If sliding doors with night locking mechanisms are used the turnstile must not be equipped with a locking mechanism.

Possible item: Handles
- ► polished, vertical push bar of stainless steel, Ø 30 mm, fitted directly onto the glass **or**
- ► polished, horizontal push bar of stainless steel, Ø 30 mm, fitted directly onto the glass

Possible item: off-centre façade connections
Connections and fitting of the revolving door to the façade off centre

Possible item: Key-operated switch in connection with programming keypad
GEZE key-operated switch in connection with GEZE programming keypad TPS to avoid unauthorised changeover of the mode of operation

Possible item: Key-operated switch
GEZE key operated switch, outside, prepared for profile half-cylinder to be provided by customer for opening the door from the closed position as well as key-operated switch inside for opening the door from inside. Upon operation from inside or outside an adjustable number of sectors moves from the locked position and then locks again.

Possible item: Button for the handicapped
Delivery and installation of two GEZE buttons with wheelchair symbol in direct vicinity of the revolving door. When operating these buttons the revolving speed of the door is reduced by a pre-adjustable value in order to offer hampered persons greater comfort in use and more safety. The duration of activation can be adjusted as well. The installation of the empty conduits towards the point of installation must be executed by the customer.

Note: can only be used for the version Push&Go and fully automatic.

Possible item: Lighting
- ► ... pcs. LED spots (max. 1 W per LED) integrated in the soffit **or**
- ► ... pcs. Recesses for lighting to be installed by the customer (diameter = ... mm)

Possible item: underfloor operator
GEZE drive as underfloor operator, dimensions of drive box in the floor: 720 x 1430 x 280 mm, prepared for drainage to be provided by the customer, canopy height: 75 mm, floor recess min. 300 mm. Suitable for all types of drive.

Possible item: Air curtain
Air curtain integrated in the in the ceiling construction of the revolving door including blow-out channel within the canopy area.

Execution of the air curtain including:
- ► Electric connection:
  Heat output: ... KW/ amount of air ... m^3/h
- ► Hot-water connection
  Heat output: ... KW/ amount of air ... m^3/h

For the complete tender specifications with download please refer to www.geze.de

Specification text GEZE TSA 325 NT GG

All-glass revolving door with 3 or 4 leaves
with outstanding transparent optical appearance, with freely selectable inner diameter of up to 3300 mm, TÜV type-tested in accordance with DIN 18650 with different types of drives and various optional features

Types of drives:
- ► Manual operation of the door **or**
- ► Manually operated door with GEZE speed limiter
  Floor recess min. 300 mm **or**
- ► Manually operated door with GEZE positioner
  Floor recess min. 300 mm **or**
- ► Semi-automatic GEZE drive/ Push&Go
  Drive as underfloor operator, dimensions of drive box in the floor: 720 x 1430 x 280 mm, prepared for drainage to be provided, by the customer, power supply: 230V/50Hz/350W/10A, programming keypad to set all modes of operation.
  Fusing in accordance with DIN 18650 (TÜV type-tested and certified) consisting of:
  - ▸ Post safety sensor
  - ▸ Anterpost safety sensor (contactless)
  - ▸ Safety contact strip fitted horizontally to the leaf (heel protection)
  - ▸ Safety contact strip fitted vertically to the leaf (hand protection)
  - ▸ Mobile safeguarding device attached to the leaf (contactless, min. diameter > 3000 mm)

or

- ► Fully-automatic GEZE revolving door system
  Drive as underfloor operator, dimensions of drive box in the floor: 720 x 1430 x 280 mm, prepared for drainage to be provided, by the customer, power supply: 230 V / 50 Hz / 350 W / 10 A, programming keypad to set all modes of operation.
  Fusing in accordance with DIN 18650 (TÜV type-tested and certified) consisting of:
  - ▸ Post safety sensor
  - ▸ Anterpost safety sensor (contactless)
  - ▸ Safety contact strip fitted horizontally to the leaf (heel protection)
  - ▸ Safety contact strip fitted vertically to the leaf (hand protection)
  - ▸ Mobile safeguarding device attached to the leaf (contactless, min. diameter > 3000 mm)

Dimensions:
- ► Inner diameter ... mm (from 1800 mm to 3300)
- ► Outer diameter: .... mm (from 1890 to 3390 mm)
- ► Clear passage height DH: ... mm (up to 2600 mm); other heights on demand !
- ► Overall height of door system: ... mm
- ► Canopy height: 17,52 mm (height of glass roof);

- ► Floor recess (minimum): 60 mm for manual door only

or

- ► Floor recess (minimum): 300 mm for door with speed limiter, positioner, semi-automatic or fully-automatic.

Other dimensions on request!

Versions: 3 or 4 leaves

Turnstile:
Rigid leaves, finely framed, without centre post to hold toughened safety glass 10 mm **Note:** An all-glass system cannot be equipped with folding leaves (Break-out)

Drum walls:
Drum walls of curved 16 mm laminated glass, clear, with vertical edge protecting profiles

Ceiling construction:
Glass ceiling of flat 17,52 mm laminated clear glass (2 x annealed glass). Outer edges with edge protection. The 2 half-shelves of glass are spot-held and equipped with a recess to hold the pivot axle bearing.

Surface of the aluminium parts: see GEZE TSA 325 NT
Floor ring: see GEZE TSA 325 NT (no direct fitting!)
Floor covering: see GEZE TSA 325 NT
Delivery and installation: see GEZE TSA 325 NT

Possible item: Night locking
- ► GEZE night locking sliding doors running outside, manual, as underfloor roller guide, dimensions of underfloor roller guide box in the floor: approx. 160 x 175 mm (with 3 leaves 120°, with 4 leaves 180°), prepared for drainage to be provided by the customer, night sliding doors of curved 12 mm laminated glass, clear, floor dead lock at the sliding leaf (profile cylinder to be provided by customer), locking from inside and outside

or

- ► GEZE night locking sliding doors, automatic, with dead man's control and power pack for emergency opening in an emergency, with connection for drainage to be executed by customer.

Possible item: Locking
- ► Locking of turn stile with GEZE extended bolt lock in the door leaf, prepared for profile half-cylinder to be provided by customer

or

- ► Locking by electrically operated GEZE disk brake.

Note : Floor recess min. 300 mm

Note: : If night locking sliding doors are used, no locking mechanism for the turnstile is required.

Possible item: Handles
- ► polished, vertical push bars of stainless steel, Ø 30 mm, fitted directly onto the glass

or

- ► polished, horizontal push bars of stainless steel, Ø 30 mm, fitted directly onto the glass

Possible item: off-centre façade connection
Connections and installation of the revolving door off-centre

Possible item: Key-operated button with programming keypad
GEZE key-operated button in connection with GEZE programming keypad TPS to prevent unauthorised alteration of the mode of operation.

Possible item: Key-operated switch
GEZE key-operated switch outside, prepared for profile half-cylinder from closed position as well as one key-operated switch inside for opening the door from inside. Upon operation from the inside or the outside the system moves an adjustable number of sectors from the closed position and then locks again.

Possible item: Button for the handicapped
Delivery and installation of two GEZE buttons with wheelchair symbol in direct vicinity of the revolving door. When operating these pushbuttons the revolving speed of the door is reduced by a pre-adjustable value in order to offer hampered persons greater comfort in use and more safety. The duration of activation can be adjusted as well. The installation of the empty conduits towards the point of installation must be executed by the customer. Information: can only be installed if the version Push&Go and fully automatic is used.

For the complete tender specifications with download please refer to www.geze.de

References

Automatic GEZE revolving door with sheet-metal drum walls in special colours with 4 leaves

PSD Bank Münster/Westfalen

Automatic GEZE all-glass revolving door with 4 leaves

Ruth-Merckle Building, Ratiopharm Ulm

Automatic GEZE all-glass revolving door with night-time locking with 3 leaves

Hella KGaA HBPO GmbH, Lippstadt

ID No. 132050 · Vers. GB 090108 · Subject to alterations

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